IBM Spectrum Accelerate delivers grid-scale, enterprise-class Storage System capabilities in a software-only model on customer-choice hardware

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At a glance

IBM® Spectrum Accelerate v11.5.0 delivers a rich variety of enterprise-level features on x86 servers, similar to XIV® Gen3 storage systems. With Spectrum Accelerate, you can reduce time to value for business applications, and achieve cost savings driven by the agility and usage of the hardware solution.

An administrator can deploy the Spectrum Accelerate storage solution on existing virtualized servers in minutes, enabling a tuning-free storage environment to be built quickly with outstanding ease of management and agility.

Overview

IBM Spectrum Accelerate, a key member of the IBM Spectrum Storage portfolio, is a new, highly flexible, software-defined storage solution that enables rapid deployment of block data storage services for new and traditional workloads, both on and off premises. Spectrum Accelerate lets you run the proven hotspot-free, grid-scale software that runs on the XIV Storage System Gen3 enterprise storage platform in your existing data center infrastructure. It offers proven grid-scale technology, mature features, and the ease of use that is already deployed on over 100,000 servers worldwide.

IBM Spectrum Accelerate delivers a design that was made for the cloud, guaranteeing hotspot- and tuning-free service levels across mixed workload to help meet the unpredictability of today's cloud world. It delivers a single management experience across software-defined environments, helps cut costs through reduced administration overhead and training, reduced procurement, standardization of datacenter storage hardware operations and services, and licensing flexibility that enables cost-efficient cloud building.

Key prerequisites

For more information on qualified servers, review the Hardware requirements and Software requirements sections.

Planned availability date

- March 13, 2015: Electronic download

- April 10, 2015: Physical media

Note: The availability of IBM Spectrum Accelerate per usable Terabyte Monthly License Software Subscriptions and Service, part number D1DZRLL, is subject to change based on the release of the monthly license program.

Description

IBM Spectrum Accelerate is a key member of the IBM Spectrum Storage portfolio. This new and flexible software-defined storage solution enables rapid deployment of block data storage services for new and traditional workloads, both on and off premises. It uses a proven grid-scale technology in use today on more than 100,000 servers worldwide for a full range of workloads.

Spectrum Accelerate runs as a virtual machine on vSphere ESXi hypervisor, enabling you to build a server-based SAN from commodity hardware that includes x86 servers, Ethernet switches, SSDs, and direct-attached, high-density disks. Spectrum Accelerate essentially acts as an operating system for your self-built SAN storage, grouping virtual nodes and spreading the data across the entire grid.

IBM Spectrum Accelerate release 11.5.0 manages up to 15 nodes in a grid, and provides a single point of management of up to 144 Grids of 15 nodes connected through Hyper-Scale Manager for a total of 2160 nodes.

Spectrum Accelerate lets you deploy storage services flexibly across different delivery models, including customer-choice hardware, existing datacenter infrastructure, and IBM storage systems.

The benefits of Spectrum Accelerate include:

- Cost reduction by delivering hotspot-free storage to different deployment models, on and off premises, paying less for the same capacity, acquiring less hardware, reducing maintenance outlay, and minimizing administrative overhead
- Increased operational agility through easy cloud building, faster provisioning, small capacity increments, licensing flexibility that enables you to easily repurpose servers
- Rapid response through enterprise-class storage availability, data protection and security for new and traditional workload needs in the datacenter and other sites while flexibly balancing capital and operational expenses
- Simplified management with seamless management across 144 virtual systems, the XIV storage system or the infrastructure of your off-premises services provider

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Program number

Program number	VRM	Program name
5725-U18	11.5.0	IBM Spectrum Accelerate

Offering Information

Product information is available via the Offering Information website

http://www.ibm.com/common/ssi

Also, visit the Passport Advantage® website

http://www.ibm.com/software/passportadvantage

Publications

The following publications can be ordered after planned availability. To order, use the Publications Center or contact your IBM representative.

Title	Order number
IBM Spectrum Accelerate v11.5 - Product Overview	SDS-584
IBM Spectrum Accelerate v11.5 - Planning, Installation, and Operation Guide	SDS-583
IBM Spectrum Accelerate v11.5 - Release Notes	SDS-585
IBM XIV Storage System XCLI Utility User Manual	GC27-3915
Management Tool 4.0 User Guide	

To view online information and link to a download site, visit the IBM Spectrum Accelerate IBM Knowledge Center

http://www-01.ibm.com/support/knowledgecenter/search/xiv

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

x86 servers running VMware ESX Hypervisor with a VM configured according to the following specifications.

Minimal VM requirements:

- CPU cores: 4 nonvirtualized CPU cores
- Memory: 24 GB physical memory
- Network: 2 10 GbE ports
- Disks: 6 to 12 hard-drives, 1, 2, 3, or 4 TB in size
- SSD (optional): One 500 GB or 800 GB SSD

Recommended VM requirements:

- CPU cores: 4 nonvirtualized CPU cores
- Memory: 48 GB physical memory
- Network: 4 to 8 10 GbE ports

- Disks: 6 to 12 hard-drives, 2, 3, or 4 TB in size
- SSD: One 800 GB SSD

Software requirements

VMware ESX v5.5 only, is required on every node.

For current supported software levels and related Spectrum Accelerate interoperability, visit

http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Companion products

Other IBM products that can be considered for implementation with the IBM Spectrum Accelerate v11.5 include:

- IBM System Storage® TS7650 server (3958-DD5)
- IBM System Storage Tape systems
- IBM Global Services virtualization implementation services
- IBM Novus CG
- IBM FlashSystem®

Limitations

- Host connectivity via iSCSI only.
- Supported number of nodes: 3 to 15.
- A number of CPU cycles reserved for VM should be at least 80 percent of total cycles of the hardware. This will actually prevent booting another VM on same ESX.
- Subnets - Separate subnets (disjoint) for interconnect, management, and iSCSI +mirroring, even if used on the same physical network. ISCSI and mirroring can share the same subnet if the LWIP is in use.

For additional information, refer to Usage restriction in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

http://www.ibm.com/software/sla/sladb.nsf

Planning information

Review the *IBM Spectrum Accelerate - Planning, Installation, and Operation Guide* available in IBM Knowledge Center

http://www.ibm.com/support/knowledgecenter/

Customer responsibilities

Planning for, and provision of, the required hardware and the power and environmental support of IBM Spectrum Accelerate v11.5, is a customer responsibility.

Planning considerations for IBM Spectrum Accelerate v11.5 are listed in the respective product IBM Knowledge Center, which is available at

http://www-01.ibm.com/support/knowledgecenter/search/xiv

Customers will carry out hardware maintenance and troubleshooting actions. Customers will assume the responsibility of downloading, installing, upgrading, and maintaining the software.

Each IBM Spectrum Accelerate system should be connected to the IBM events center (call home). For systems not connected, the customer will have to generate a usage report, generated by the system or the Hyper-Scale Manager, and mail it to IBM every month.

Packaging

After receipt of an order for IBM Spectrum Accelerate v11.5, the Business Partner or customer will be required to register and accept Passport Advantage or Passport Express® terms and conditions. Upon registration, the customer will be authorized for the electronic download of software code updates. For the perpetual license, the product includes the license and one year of Subscription and Support, and up to two additional years of support can be purchased with the initial order.

For the monthly license, the product includes the license and 1 to 60 months of Subscription and Support, with an option to renew for length of original term, renew for 12 months, continuous month to month billing.

The paid invoice acts as Proof of Entitlement (PoE) for all orders of IBM Spectrum Accelerate.

Subsequent media orders

For additional available publications, refer to the Publications section.

For assistance in placing orders with or without media features, contact your IBM representative.

Publications are in English. This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program.

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

http://www.ibm.com/partnerworld/wps/bplocator/

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Product group: IBM Systems

IBM Spectrum Accelerate                5725-U18
 (for Passport Advantage)
 per Terabyte

Product category: Spectrum Accelerate
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Ordering information for Passport Advantage

Passport Advantage (PPA) allows greater flexibility to help customers manage their software licenses and Subscription and Support renewals. Customers can now

have a common anniversary date for Subscription and Support renewals for all IBM software, under a PPA agreement, including IBM Storage software. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while their Passport Advantage or Passport Advantage Express agreement remains in effect.

Spectrum Accelerate can be ordered in 2 licensing models:

- Perpetual license with annual Software Subscription & Support renewals after the first year
- Monthly license with optional automatic renewals

The quantity to be specified for the Passport Advantage part numbers in the following table is per TERABYTE. 1 TERABYTE (TB) is equal to 2 to the 40th power or 1,099,511,627,776 bytes.

To order for Passport Advantage, specify the desired part number and quantity.

Program name: IBM Spectrum Accelerate
PID: 5725-U18

Description	Part number
IBM Spectrum Accelerate per Terabyte Monthly License SW S&S	D1DZRLL
IBM Spectrum Accelerate per Terabyte License + SW Subscription & Support 12 Months	D1DZPLL
IBM Spectrum Accelerate per Terabyte SW S&S Reinstate 12 Months	D1DZQLL
IBM Spectrum Accelerate per Terabyte Annual SW Subscription & Support Renewal	E0KZULL

The products in the above tables are also available via web download from Passport Advantage.

For the monthly license D1DZRLL

- Length of the original term --- 1 to 60 months
- Billing frequency -- monthly, quarterly, annually, all up-front
- Renewal choice at end of original term -- terminate, renew for length of original term, renew for 12 months, continuous month to month billing
- Monthly License including Software Subscription & Support throughout the license period

Note: The availability of IBM Spectrum Accelerate per usable Terabyte Monthly License Software Subscriptions and Service, part number D1DZRLL, is subject to change based on the release of the monthly license program.

For the perpetual license D1DZPLL the new software purchases will initially include twelve full months of Software S&S in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all S&S will renew by ordering E0KZULL at the common anniversary date for twelve full months of S&S. Customer can add to the initial order two more years of support by purchasing two IBM Spectrum Accelerate per Terabyte Annual Software Subscription and Support Renewal (E0KZULL).

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media packs description	Part number
IBM Spectrum Accelerate Version 11.5.0.b Multiplatform, Multilingual Media Pack	BH000ML

Charge metric

Program name	Part number or PID number	Charge metric
IBM Spectrum Accelerate	5725-U18	Per Terabyte

License Metric Definition

Usable terabyte (T/TB)

1 terabyte (TB) is equal to 2 to the 40th power or 1,099,511,627,776 bytes.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is only available via Passport Advantage.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

License Information number

LI number LC27-6699-00

The program's License Information will be available for review on the IBM Software License Agreement website

http://www.ibm.com/software/sla/sladb.nsf

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified

portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program.

Other terms

Volume orders (IVO)

Yes. Contact your IBM representative.

IBM International Passport Advantage Agreement

Passport Advantage applies

Yes, and through the Passport Advantage website at

http://www.ibm.com/software/passportadvantage

Usage restriction

Yes

IBM Spectrum Accelerate (5725-U18)

This program (5725-U18) is licensed on a per-Terabyte site-wide capacity basis. (Refer to the Ordering information section for information on charges for this program).

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

http://www.ibm.com/software/sla/sladb.nsf

Software Subscription and Support applies

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired (perpetual license D1DZPLL). The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support (monthly license also includes S&S) is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides English only Severity 1 (live support), and Severity 2 (2 hours call back) assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

http://www.ibm.com/support/handbook

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

http://www.ibm.com/software/passportadvantage

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where

you can obtain Business Partner pricing information. An IBM ID and password are required.

http://www.ibm.com/partnerworld/sg/apchannounce/

For all local charges, contact your IBM representative

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner.

Additional information is also available at Passport Advantage website

http://www.ibm.com/software/passportadvantage

http://www.ibm.com/partnerworld/sg/apchannounce/

For all local charges, contact your IBM representative.

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

http://www.ibm.com/software/passportadvantage

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AP distribution

Country/Region	Announced
AP IOT	
ASEAN*	Yes
India/South Asia**	Yes
Australia	Yes
People's Republic of China	Yes
Hong Kong S.A.R of the PRC	Yes
Macao S.A.R of the PRC	Yes

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 Taiwan                        Yes
 South Korea                   Yes
 New Zealand                   Yes
Japan IOT
 Japan                         Yes

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 **Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, and
   Afghanistan
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